SPECIFICATON

2 TITLE: CHERRY TREE NAMED 'GLENOIA'

3 INVENTOR: Lowell Glen Bradford

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5 Le Grand, California 95333

6 BOTANICAL CLASSIFICATION: Prunus avium.

BACKGROUND OF THE VARIETY

8 In a continuing effort to improve the quality of shipping fruits, I, the inventor, typically hybridize a large number of peach, nectarine, 9 plum, apricot, and cherry seedlings each year. I also grow a lesser 10 number of open pollinated seeds of each of these fruits, usually to 11 capture recessive traits. The present invention relates to a new and 12 13 distinct variety of cherry tree, which has been denominated varietally as 14 'GLENOIA'. During the spring of 1993 I gathered fruit from several different unnamed cherry seedlings in my experimental orchard at Bradford 15 Farms near Le Grand, California in Merced County (San Joaquin Valley). 16 The seeds from this fruit were removed, cracked, stratified, germinated, 17 and grown as seedlings on their own root in my greenhouse, and upon 18 reaching dormancy transplanted to a cultivated area of my experimental 19 orchard described above. During the fruit evaluation season of 1997 I 20 selected several cherry trees that exhibited desirable qualities. 21 22 present variety was selected as a single tree from the group described 23 Subsequent to origination of the present variety of cherry tree, I asexually reproduced it by budding and grafting in the experimental 24 orchard described above, and such reproduction of plant and fruit 25

1 characteristics were true to the original plant in all respects. The

2 reproduction of the variety included the use of 'Colt' (unpatented)

rootstock, upon which the present variety was compatible and true to

4 type.

The present variety is most similar to the 'Glenred' (United States Plant Patent Number 12,859) cherry by producing cherries that are large in size, oblate in shape, firm in texture, dark red in skin color, red in flesh color, and sweet in flavor, but is distinguished therefrom and an improvement thereon by blooming about two days later, by producing cherries that ripen about ten days later, and by being a pollinator for both the 'Glenred' cherry and the 'Tulare' (United States Plant Patent Number 6,407) cherry.

SUMMARY OF VARIETY

In summary, the present variety is characterized by a medium size, vigorous, hardy, self-sterile, productive and regular bearing tree. The fruit matures under the ecological conditions described in the latter part of May, with first picking on May 25, 2003. The fruit is uniformly large in size, very sweet in flavor, oblate in shape, clingstone in type, firm in texture, red in flesh color, and full red in skin color.

DRAWING

The accompanying photograph displays a characteristic twig bearing leaves, two fruits with the stems attached, several whole fruits detached from the stems to exhibit the skin color and form, two fruits sectioned along different planes to reveal the flesh and fibers, and two individual leaves, all typical of the subject variety.

1	POMOLOGICAL CHARACTERISTICS
2	Referring now more specifically to the pomological
3	characteristics of this new and distinct variety of cherry tree, the
4	following has been observed under the ecological conditions prevailing
5 ·	near Le Grand, Merced County (San Joaquin Valley), California, and was
6	developed at the state of firm ripe on May 26, 2003, on a four year old
7	tree on Colt rootstock. All major color code designations are by
8"	reference to the Inter-Society Color Council, National Bureau of
9	Standards. Common color names are also used occasionally.
10	<u>Tree</u>
11	Size: Medium, reaching a height of 13' [3.96 m.] and a spread of 9'
12	[2.74 m.] after four growing seasons on Colt rootstock.
. 13	<u>Vigor:</u> Vigorous, responding typically to irrigation and fertilization
1.4	The plant should be grown on a standard commercial rootstock
15	for production purposes.
16	Growth: Upright.
17 .	Form: A natural tendency to generate a central leader system if
18	unpruned, but a vase shape may be obtained by pruning.
19	Branch Angle Range: 40 to 80 degrees.
20	Hardiness: Hardy with respect to central California winters.
21	<pre>Heat Tolerance: Observed to perform adequately in typical central</pre>
22	California climatic conditions, which typically include
23	extended periods of heat.
24	Drought Tolerance: Variety is developed for commercial orchards and
25	requires regular irrigation.

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1
     Production: Productive.
     Fertility: Self-sterile, must be cross pollinated by another early
2
                  blooming cherry variety, such as 'Glenred' or 'Tulare'.
 3
     Bearing: Regular bearer with no alternate bearing yet observed.
     Trunk:
              Size. - Medium, with a maximum diameter of 2 1/2" [63.5 mm.]
. 6
                    after the fourth growing season.
7
              Texture. - Somewhat shaggy.
8
              Bark Color .- Grayish brown [61. gy.Br].
              Lenticels .- Approximate Number Per Square Inch: 12.
10
11
                          Color: Brownish orange [54. br0].
                          Typical Size: 1/8" to 3/8" [3.2 - 9.5 mm.].
12
13
     Branches:
                 Main Scaffold Diameter. - 1 3/4" [44 mm.] measured 12"
14
15
                                           above the crotch.
                 Limb Diameter. - 1 1/8" [29 mm.] measured 12" above the first
16
17
                                  fork.
                 Texture. - Smooth on 1st year wood, increasing roughness
18
19
                          with age.
                 Color. - 1st Year Wood Topside: Grayish red [19. gy.R].
20
                          1st Year Wood Underside: Brilliant yellow green
21
                                                     [116. brill.YG].
22
                         Older Wood: Grayish brown [61. gy.Br].
23
                 Lenticels. - Approximate Number Per Square Inch: 15.
24
25
                             Color: Brownish orange [54. br0].
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Typical size: 1/8" to 1/4" [3.2 - 6.4 mm.].
 2
     Leaves:
               Size. - Medium.
 3
                      Average Length: 5 1/8" [130 mm.].
                      Average Width: 2 1/2" [63.5 mm.].
               Arrangement. - Alternate.
               Thickness .- Medium.
               Form. - Elliptical.
               Apex. - Acuminate.
               Base. - Acute, mostly rounded.
               Surface - Smooth.
10
11
               Color. - Dorsal Surface: Dark olive green [126, d.OlG].
12
                       Ventral Surface: Moderate yellow green [120. m.YG].
               Margin. - Finely serrate.
13
               Venation. - Pinnately net veined.
14
               Vein Color. - Light yellow green [119. 1.YG] to Light reddish
15
                            brown [42. 1.rBr].
16
               Petiole. - Average Length: 1 7/16" [35.6 mm.].
17
                         Average Thickness: 1/16" [1.6 mm.].
18
19
                         Color: Very dark purplish red [260. v.d.pR] topside
20
                                  and Grayish red [19. gy.R] underside.
               Stipules. - Number: Typically 2 per leaf.
21
                          Average Length: 7/16" [11.1 mm.].
22
23
                          Color: Grayish pink [8, gy.Pk] becoming
24
                                  Very deep red [14. v.deep R] when
25
                                  old and dry.
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1		Glands Number: 2 per leaf.
2		Position: On petiole
3		Size: Large.
4		Form: Reniform to oval.
5		Color: Very deep red [14. v.deep R] along the edge and
6		Light grayish Red [18. l.gy.R] toward the
.7		center.
8		Leaf Buds Conic.
9	Flower Bu	ads:
10		Hardiness Hardy, with respect to central California winters.
11		Diameter Typically 5/16" [7.9 mm.] right before bloom.
12	* * * * * * * * * * * * * * * * * * *	Length Typically 5/8" [15.9 mm.] right before bloom.
13		Form Free.
14		Surface Nonpubescent.
15	÷	Color White [263. white].
16	Flowers:	Perfect, complete, perigynous, usually a single pistil,
17		typically twenty or more stamens, five sepals and petal
18		locations alternately positioned.
19		Average Flower Diameter 1 5/16" [33.3 mm.].
20		Number of Petals Usually five.
21		Petal Shape Circular to oval.
22		Petal Margin Somewhat wavy with an occasional serration.
23		Average Petal Diameter 9/16" [14.3 mm.].
24		Average Petal Length 9/16" [14.3 mm.].
25		Petal Apex Rounded with a small notch located at the top

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center of the margin on many.
1
                 Petal Base. - Rounded to slightly cuneate.
2
 3
                 Petal Color. - White [263. white].
                Anther Color. - Light yellow [86. 1.Y].
                 Stigma Color. - Pale yellow green [121. p.YG].
                 Sepal Color. - Grayish purplish red [262. qy.pR] over Light
                               yellow green [119. l.YG].
 7
                 Sepal Length. - 1/4" [6 mm.].
 8 . .
 9
                 Sepal Width. - 5/32" [4 mm.].
                 Average Pistil Length. - 1/2" [12.7 mm.].
10
11
                Average Stamen Length. - 9/16" [14.3 mm.].
                 Fragrance. - Moderate.
12
13
                 Blooming Period. - Early compared with other varieties.
                 Onset of Bloom. - Five percent on March 14, 2003, about two
14
15
                                   days after 'Glenred' and three days before
                                   'Tulare'.
16
17
                 Date of Full Bloom. - March 23, 2003.
                 Duration of Bloom. - Five to ten days, dependent on ambient
18
19
                                      temperature.
                 Number per cluster. - 3 to 4 most common.
20
21
                                         FRUIT
22
      Maturity When Described: Firm ripe, May 26, 2003.
23
      Date of First Picking: May 25, 2003.
24
      Date of Last Picking: May 31, 2003.
      Size: Uniform, large.
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Average Cheek Diameter. - 1 1/16" [27.0 mm.].
 2
             Average Diameter Across Suture Plane. = 15/16" [23.8 mm.].
 3
             Typical Weight. - 0.30 ounces [8.6 grams].
 5
             Uniform, symmetrical, compressed axially and around the suture.
      Form:
             Cheek Plane Form .- Oblate.
             Suture Plane Form. - Oval.
             Axial View Form. - Elliptical.
. 8
      Suture: An inconspicuous Blackish red [21. blackish R] line located in a
10
               shallow trough from the stem cavity but discontinuing at the
11
               apex.
      Ventral Surface: Rounded, slightly lipped toward the apex.
12
13
      Lips: Equal.
14
      Stem Cavity: Flaring, slightly compressed in the suture plane, suture
                    showing on one side.
15
               Depth.- 3/16" [4.8 mm.].
16
               Breadth. - 3/8" [9.5 mm.].
17
             Truncate to cordate.
18
             Rounded, somewhat cordate when viewed along the suture.
19
      Apex:
20
      Pistil Point: An inconspicuous dot depressed within the suture.
```

Average Diameter Axially - 7/8" [22.2 mm.].

red [19. gy.R] tinting from sunlight.

Color. - Brilliant yellow green [116. brill.YG] with some Grayish

Medium.

Average Length. - 1 3/4" [44.5 mm.].

Average Width. - 1/16" [1.6 mm.].

21

22

23

24

25

Stem:

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1
             Attachment. - Strong.
 2
      Skin:
 3
             Thickness .- Medium.
             Surface. - Smooth.
 4
             Tenacity. - Tenacious to flesh.
             Astringency. - Slightly astringent.
 7
             Tendency to Crack - Slight after rain, not quite as resistant as
                                  'Tulare'.
             Color - Very dark red [17. v.d.R] to Very deep red
                      [14. v.deep R] over the entire surface.
10
              Color. - Dark red [16. d.R] with Very deep red [14. v.deep R]
11
      Flesh:
                      streaking near the stone.
12
               Surface of Pit Cavity. - Very dark red [17. v.d.R] fibers
13
                                       breaking when twisted from the stone.
14
               Amygdalin. - Moderate.
15
               Juice .- Abundant, rich.
16
               Juice Color. - Deep red [13. deep R].
17
               Texture. - Very firm, crisp.
18
19
               Fibers. - Abundant, fine.
               Ripens. - Slightly earlier toward the apex and near the stone.
20
               Flavor. - Very sweet with moderate acid, usually 20 to 23 brix.
21
22
               Aroma. - Slight.
23
               Eating Quality. - Very best.
24
                                          STONE
25
             Clingstone.
      Type:
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- 1 Form: Obovoid.
- 2 External Color: Light grayish yellowish brown [79. 1.gy.yBr].
- Pit Wall Color When Cracked: Pale orange yellow [73. p.OY].
- 4 Internal Cavity Color: Light grayish yellowish brown [79. 1.gy.yBr].
- 5 Average Width: 3/8" [9.5 mm.].
- 6 Average Length: 1/2" [12.7 mm.].
- 7 Average Breadth: 5/16" [7.9 mm.].
- 8 <u>Hilum:</u> Rounded.
- 9 Base: Rounded.
- 10 Apex: Acute to rounded.
- 11 Sides: Equal.
- 12 Surface: Smooth.
- 13 Ridges: Two thin ridges along the ventral edge.
- 14 Average Pit Wall Thickness: 1/16" [1.6 mm.]
- 15 Tendency To Split: None observed.
- 16 Kernel:
- 17 Form. Oval.
- 18 Skin Color. Yellowish white [92. yWhite] when freshly removed.
- 19 Pellicle Color. Grayish yellow [90. gy.Y].
- Vein Color. Pale yellow [89. p.Y].
- 21 Taste. Bitter.
- 22 Viable. Yes.
- 23 Average Width.- 7/32" [5.6 mm.].
- 24 Average Length. 5/16" [7.9 mm.].
- 25 Amygdalin Abundant.

1	<u>USE</u>	
2	Market: Fresh market and long distance shipping.	
3	Keeping Quality: Good. Fruit quality observed to remain in good	
. 4	condition after 14 days in standard cold room at	
5	36° Fahrenheit [2° Celsius].	
6	Shipping Quality: Good.	
7	Resistance To Insects: No unusual susceptibilities noted.	
8	Resistance To Diseases: No unusual susceptibilities noted.	
9		
10	Other Notes	
1,1	Although the new variety of cherry tree possesses the describ	ped
12	characteristics under the ecological conditions at Le Grand, Californi	ia,
13	in the central part of the San Joaquin Valley, it is to be expected the	nat
14	variations in these characteristics may occur when farmed in areas wi	ith
15	different climatic conditions, different soil types, and/or vary	ing
16	cultural practices.	
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